

Amendment in response to Office Action dated 05/08/2002

Serial No.: 09/817,278

Pennie & Edmonds LLP: (202) 496-4400

Filed: March 27, 2001

Attorney Docket: 616-979

Inventor: P. ADAMS *et al.*

Date: 8/15/02

For: MULTI-MODE LIGHTER

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APPENDIX B
PENDING CLAIMS

Claims pending in the application: 1-77

Claims allowed: 44

1. (Amended) A lighter comprising:
a housing having a supply of fuel;
an actuating member moveable to selectively ignite the fuel, the actuating member associated with the housing; and
a moveable wand assembly associated with the housing and operatively associated with the actuating member such that when the wand assembly is in a first position, the wand assembly is capable of causing the actuating member to be immobilized sufficiently to prevent ignition of the fuel.
2. The lighter of claim 1, wherein when the wand assembly is in at least one second position, the actuating member is moveable sufficiently to ignite the fuel.
3. The lighter of claim 2, wherein when the wand assembly is positioned between the first and second positions, the actuating member is moveable sufficiently to ignite the fuel.
4. The lighter of claim 2, wherein when the wand assembly is positioned between the first and second positions, the actuating member is immobilized sufficiently to prevent ignition of the fuel.
5. The lighter of claim 1, wherein the actuator member is substantially immobilized when the wand assembly is in the first position.

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6. The lighter of claim 1, wherein the wand assembly is pivotally coupled to the housing.

7. The lighter of claim 1, wherein the actuating member is slidable.

8. The lighter of claim 7, wherein when the wand assembly is in the first position, the actuating member is at least partially prevented from sliding.

9. The lighter of claim 1, further comprising a cam follower operatively associated with the housing and including a first portion for interacting with the wand assembly and a second portion for interacting with the actuating member.

10. The lighter of claim 9, wherein the wand assembly includes a camming surface and the cam follower first portion interacts with the camming surface.

11. The lighter of claim 9, wherein when the wand assembly is in the first position, the cam follower second portion immobilizes the actuating member sufficiently to prevent ignition of the fuel.

12. The lighter of claim 9, wherein when the wand assembly is in a second position, the cam follower second portion allows the actuating member to move sufficiently to ignite the fuel.

13. The lighter of claim 9, wherein movement of the wand assembly causes the camming surface to move the cam follower.

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14. The lighter of claim 10, wherein the camming surface defines a first detent for engaging the cam follower first portion when the wand assembly is in the first position.

15. The lighter of claim 14, wherein the camming surface further defines a second detent spaced from the first detent for providing resistance against movement of the wand assembly, and the cam follower first portion engages the second detent when the wand assembly is in the second position.

16. The lighter of claim 15, wherein the first position is a closed position and the second position is an extended position, and the camming surface further defines at least one additional detent between the first and second detents for engaging the cam follower first portion when the wand assembly is in at least one intermediate position between the first and second positions.

17. The lighter of claim 1, wherein the actuator member is a trigger.

18. The lighter of claim 1, wherein the actuating member is part of an actuating assembly.

19. The lighter of claim 10, wherein the cam follower is biased toward the camming surface.

20. The lighter of claim 1, wherein when the wand assembly is in the first position, the actuating member is immobilized sufficiently to prevent release of the fuel.

21. The lighter of claim 1, wherein when the wand assembly is in the first position, the actuating member is immobilized sufficiently to prevent creation of a spark.

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22. (Amended) A lighter comprising:
a housing having a supply of fuel;
an actuating member operable to selectively ignite the fuel, the actuating member associated with the housing; and
a wand assembly pivotally coupled to the housing, wherein the wand assembly is moveable from a first position with a first wand-positioning-force and from a second position with a second wand-positioning-force, wherein the first wand-positioning-force is different than the second wand-positioning-force.

23. (Amended) The lighter of claim 22, wherein a pivoting force applied to a point on the wand assembly and sufficient to pivot the wand assembly is greater in the first position than in the second position.

24. (Amended) The lighter of claim 22, further including a cam follower operatively associated with the housing and including a first engaging portion, wherein the wand assembly includes a second engaging portion, and in the first position the first and second engaging portions contact.

25. (Amended) The lighter of claim 24, wherein in the second position, the first and second engaging portions are out of contact.

26. The lighter of claim 24, wherein the first engaging portion is an outward protrusion and the second engaging portion is an indentation.

27. The lighter of claim 24, wherein the first engaging portion is an indentation and the second engaging portion is an outward protrusion.

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28. (Amended) The lighter of claim 22, wherein the wand assembly is pivotable between a closed position and an extended position, and the first and second positions are located between the closed position and the extended position.

29. (Amended) The lighter of claim 22, wherein the wand assembly is slidable between a closed position and an extended position, and the first and second positions are located between the closed position and the extended position.

30. (Amended) The lighter of claim 22, wherein in the first position the wand assembly is in an extended position, and in the second position the wand assembly is in a closed position.

31. (Amended) The lighter of claim 22, wherein in the first position the wand assembly is in a closed position, and in the second position the wand assembly is in an extended position.

32. The lighter of claim 22, wherein when the wand assembly is in a first position, the actuating member is immobilized sufficiently to prevent release of the fuel.

33. The lighter of claim 22, wherein when the wand assembly is in a first position, the actuating member is immobilized sufficiently to prevent creation of a spark.

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34. (Amended) A lighter comprising:
a housing having a supply of fuel;
an actuating member operable to selectively ignite the fuel, the actuating member associated with the housing; and
a wand assembly movable between a closed position and an extended position, wherein the wand assembly is releasably positionable and releasably securable with respect to the housing in at least one predetermined intermediate position between the closed position and the extended position.

35. The lighter of claim 34, wherein the wand assembly is releasably positionable in the extended position.

36. The lighter of claim 34, wherein the wand assembly is releasably positionable in the closed position.

37. The lighter of claim 34, further comprising a cam follower operatively associated with the housing, wherein the cam follower releasably positions the wand assembly in the at least one intermediate position.

38. The lighter of claim 37, wherein the actuating member is moveable to selectively ignite the fuel, and when the wand assembly is in the closed position, the cam follower immobilizes the actuating member sufficiently to prevent ignition of the fuel.

39. The lighter of claim 38, wherein when the wand assembly is in the extended position, the cam follower allows the actuating member to move sufficiently to ignite the fuel.

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40. The lighter of claim 39, wherein when the wand assembly is in the at least one intermediate position, the cam follower immobilizes the actuating member sufficiently to prevent ignition of the fuel.

41. The lighter of claim 39, wherein when the wand assembly is in the at least one intermediate position, the cam follower allows the actuating member to move sufficiently to ignite the fuel.

42. The lighter of claim 34, wherein the housing defines a longitudinal axis, and the wand assembly pivots about a transversely extending pivot axis that is substantially perpendicular to the longitudinal axis.

43. The lighter of claim 42, wherein the housing defines a first side and a second side, and at least a portion of the wand assembly is located between the first side and the second side.

44. (Allowed) A lighter comprising:
a housing having a supply of fuel;
an actuating member for selectively igniting the fuel, the actuating member associated with the housing; and
a wand assembly including a hub rotatably connected to the housing and a wand connected to the hub, the hub including an outer surface having a plurality of detents therein, wherein the wand pivots about a transversely extending pivoting axis that is substantially perpendicular to the longitudinal axis.

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45. (Amended) A lighter comprising:
a housing having a supply of fuel;
an actuating member moveable to selectively ignite the fuel, the actuating member associated with the housing; and
a wand associated with the housing and moveable between a first position and a second position,
wherein when the wand assembly is in the first position the actuating member requires a first actuating force to selectively ignite the fuel, when the wand assembly is in the second position the actuating member requires a second actuating force to selectively ignite the fuel, and the first actuating force is greater than the second actuating force.

46. The lighter of claim 45, wherein the wand assembly is pivotable between the first position and the second position.

47. The lighter of claim 45, further comprising a cam follower operatively associated with the housing and including a first portion for interacting with the wand assembly and a second portion for interacting with the actuating member.

48. The lighter of claim 47, wherein the actuating member includes a first surface and the cam follower second portion includes a second surface, and the first and second surfaces are capable of engagement.

49. The lighter of claim 48, wherein the first and second surfaces are capable of releasable engagement.

50. The lighter of claim 48, wherein the first and second surfaces are substantially vertical.

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51. The lighter of claim 48, wherein the first and second surfaces are angled.

52. A lighter comprising:

a housing having a supply of fuel;

an ignition assembly for igniting the fuel;

a wand assembly associated with the housing;

a nozzle for releasing fuel;

an actuating member operable to selectively actuate the ignition assembly; and

a conduit extending through the wand assembly and including:

a tube defining a channel for conveying the fuel from the

supply to the nozzle, and

a coiled wire received in the channel and electrically connected

to the ignition assembly and the nozzle.

53. The lighter of claim 52, wherein the wand assembly further includes a metal wand and the lighter further comprises an insulated wire electrically connecting the ignition assembly to the metal wand.

54. The lighter of claim 53, wherein the insulated wire is at least partially coiled around the tube.

55. The lighter of claim 52, wherein the actuator member is operable to selectively release fuel from the nozzle.

56. The lighter of claim 52, wherein the ignition assembly includes a piezoelectric element.

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57. The lighter of claim 52, wherein the ignition assembly includes a battery.
58. (Amended) A lighter comprising:
a housing having a supply of fuel;
an ignition assembly for igniting the fuel;
a wand assembly pivotally associated with the housing and having a nozzle;
an actuating member operable to selectively release fuel from the nozzle and
actuate the ignition assembly; and
at least one member fluidly connecting the supply to the nozzle, the at least
one member electrically connected to the ignition assembly and the nozzle,
wherein the wand assembly pivots about a pivot axis, and the at least one
member is spaced from the pivot axis and extends at least partially through the wand
assembly.
59. (Amended) The lighter of claim 58, wherein the wand assembly defines an
aperture spaced from the pivot axis, and the at least one member passes through the aperture.
60. The lighter of claim 59, wherein the aperture is an arcuate slot.
61. The lighter of claim 59, wherein the wand assembly includes a hub, and the
aperture is defined in the hub.
62. The lighter of claim 61, wherein the hub rotates about an axle, and the aperture
is spaced from the axle.

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63. The lighter of claim 58, further comprising:
a first electrode operatively supported by the housing;
a conductive member spaced from the first electrode and operatively supported by the housing;
a wire electrically connecting the first electrode to the conductive member;
a second electrode formed as portion of the ignition assembly; and
an electrical conductor operatively associated with the actuating member such that movement of the actuating member moves the electrical conductor, and the electrical conductor is in electrical communication with the conductive member.

64. The lighter of claim 63, wherein the electrical conductor is slidable along the conductive member.

65. (Amended) The lighter of claim 63, wherein the wand assembly includes the first electrode.

66. The lighter of claim 1, wherein the wand assembly is capable of being moved with respect to the housing from the first position to at least one second position, wherein sufficient immobilization of the actuating member to prevent ignition of the fuel is caused by the position of the wand assembly.

67. The lighter of claim 44, wherein the outer surface is undulating.

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68. A lighter comprising:
a housing assembly having a supply of fuel;
a wand assembly associated with the housing assembly and having a nozzle;
a conduit for transporting fuel from the supply to the nozzle;
an ignition assembly for igniting fuel at the nozzle; and
an actuating member operable to selectively release fuel from the nozzle and
actuate the ignition assembly,
wherein the conduit contains a lead from the ignition assembly for igniting
fuel at the nozzle.

69. The lighter of claim 68, wherein the lead operably connects a first electrode
to a first part of the ignition assembly; and a second lead operably connects a second
electrode to a second part of the ignition assembly for generating an electrical arc between the
electrodes.

70. The lighter of claim 69, wherein the first electrode comprises the nozzle.

71. The lighter of claim 69, wherein the second electrode comprises a tab on the
wand assembly.

72. The lighter of claim 68, wherein the wand assembly comprises a wand, and
the conduit and the lead allow the wand to move with respect to the housing assembly.

73. The lighter of claim 72, wherein the wand is capable of moving with respect
to the housing assembly.

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74. The lighter of claim 68, wherein the actuating member is capable of selectively releasing fuel from the nozzle and actuating the ignition assembly in first and second modes.

75. The lighter of claim 74, wherein the first mode requires an operator to apply a first force to the actuating member in order to selectively release fuel from the nozzle and actuate the ignition assembly, and the second mode requires the operator to apply a second force to the actuating member in order to selectively release fuel from the nozzle and actuate the ignition assembly.

76. The lighter of claim 75, wherein the first force is greater than the second force.

77. The lighter of claim 76, wherein the second mode requires the operator to activate a second trigger.